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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,469	09/19/2003	Katell Decamp	43869.046100	8868

32361 7590 06/19/2006

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EXAMINER

KYLE, MICHAEL J

ART UNIT	PAPER NUMBER
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3677

DATE MAILED: 06/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/666,469	DECAMP, KATELL	
	<b>Examiner</b>	<b>Art Unit</b>	
	Michael J. Kyle	3677	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5/2/06</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1 and 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cescon et al ("Cescon", U.S. Patent No. 5,612,687) in view of Fischer (U.S. Patent No. 4,630,983) and Takahashi et al ("Takahashi", U.S. Patent No. 5,850,676).
3. Cescon discloses an inertial unit (16) of an aircraft (11) and a rack (14) where the inertial unit comprises inertial sensors that measure acceleration and rotation data which are then compiled in a mathematical model in order to deduce therefrom the position of the aircraft in space. Cescon is silent as to how the inertial unit fixed to the rack. Cescon also does not provide a plurality of assemblies.
4. Fischer teaches a peg (1-5), a unit (12) having a sleeve (13), and a rack (11). The peg (1-5) comprises an anterior portion (5) that is introduced, with clearance, into a sleeve (13) of the component (12). A posterior fixing part (between 1 and 5, in figure 1) is inserted in the sleeve without clearance. The posterior fixing part is designed to compensate for clearance and has a diameter greater than a diameter of the sleeve. The peg is slotted (3). Examiner notes the limitation "intended to be push-fitted simultaneously" is an intended use recitation and is given little patentable weight. As long as the prior art is capable of being used in the intended manner,

Art Unit: 3677

then the prior art is considered to meet the limitation. Additionally, the limitation “push-fitted simultaneously” is a method limitation in article claim, and is given little patentable weight. As long as the prior art meets the structural limitations of the claims, then the prior art is considered capable of being made by the claimed method. Fischer shows only one assembly of a peg and sleeve, not a plurality, as claimed. This arrangement maintains the peg in a slot by resiliently engaging the shank with the slot, to make up for any difference in diameter of the slot and peg. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Cescon, such that the inertial is fixed to the rack by the peg and slot assembly of Fischer, to maintain a snug fit between the peg and slot and in turn, maintain the connection. Further, it is within the level of an ordinarily skilled artisan to use a well known and old fastening assembly (peg and slot of Fischer) on a known assembly (inertial unit, rack of Cescon).

5. Takahashi teaches a plurality of assemblies (10, 46, and 48, see figure 2) comprising an inertial unit (44), a rack (42), pegs (10), and sleeves (48). Using a plurality of peg and sleeve assemblies, as opposed to a single peg and sleeve to fasten one part to another creates a stronger connection. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Cescon, such that a plurality of pegs and sleeves, as taught by Takahashi, are used to fasten to the rack to the inertial unit. Using more fasteners provides more support for the rack on the inertial unit. The plurality of peg and sleeve assemblies are capable of being simultaneously push-fitted.

6. With respect to claims 3 and 4, Fischer teaches the peg has lateral flats (on 8) and the posterior fixing portion has a cylindrical part.

Art Unit: 3677

7. With respect to claims 5 and 6, Fischer teaches the posterior fixing portion has a part that is inserted with clearance (where 1 meets the portion having the slot 3). That part is frustoconical and situated behind the cylindrical part. Examiner considers both the portions to the left and the right of the frustoconical part to be cylindrical portions.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cescon in view of Fischer and Takahashi, as applied to claim 6 above, further in view of King, Jr. ("King", U.S. Patent No. 3,962,775). Cescon, Fischer, and Takahashi fail to disclose the peg to be coated with a graphite deposit.

9. King teaches the use of graphite on an expansion, in a sleeve, such as graphite, as a lubricant (column 12, lines 4-15). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify Cescon, Fischer, and Takahashi, such that a graphite deposit is included on the peg of Fischer, to lubricate the peg, thereby allowing easier insertion into the sleeve.

### ***Response to Arguments***

10. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection. Cescon is cited for showing an inertial unit.

### ***Conclusion***

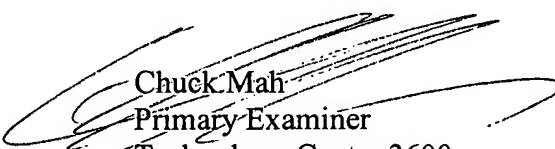
11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Kyle whose telephone number is 571-272-7057. The examiner can normally be reached on Monday - Friday, 8:30 am - 5:00 pm.

Art Unit: 3677

12. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Swann can be reached on 571-272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mk



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